

Studies on Flies in Korea

6. On the Hitherto Unreported Species (Sarcophagidae, Muscidae, Tachinidae; Diptera) in Korea

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韓國產 파리의 研究

6. 未記錄 파리類에 關하여

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摘 要

1. 1967年 3月 부터 10月 까지 서울 附近의 파리를 採集調査한 結果 韓國未記錄 五種을 얻었다.

2. 韓國에 記錄된 *Fannia* 는 二種이 었으나 *Fannia pri.ca* 가 追加되어 衛生害蟲인 *Fannia* 屬은 三種이 된다.

3. *Sarcophaga antilope* 가 追加되어 韓國에 記錄된 衛生害蟲 碎파리는 32種이 된다.

INTRODUCTION

During the period from March to September of 1967, the author had made an intensive collection of flies in the Seoul area which amount to 2000 specimens.

A close examination of the specimens revealed that *Sarcophaga antilope* BOETTCHER, 1913, *Myospila meditabunda* FABRICIUS, 1781, *Phaonia fuscata* FALL-EN, 1825, *Fannia pri.ca* STEIN, 1918 and *Salmacia foersteri* MEIGEN, 1838 were hitherto unreported species from Korea.

DESCRIPTIONS

Sarcophaga antilope (BOETTCHER, 1913)

(Ann. Mus. Nat. Hung., 1:380)

Female

Body length: 15mm

Head: Frons $3/4$ (2:1:5) as wide as one eye; frontal vitta black; parafrontals and parafacials with golden pollen; frontal bristles 12 pairs; antennae dark brown, length of 3rd segment 3 times that of 2nd segment; bucca black with grayish pollen; palpi black.

Thorax: Scutum with golden pollen, with three black longitudinal stripes; acrostichal bristles 2+2; dorsocent-

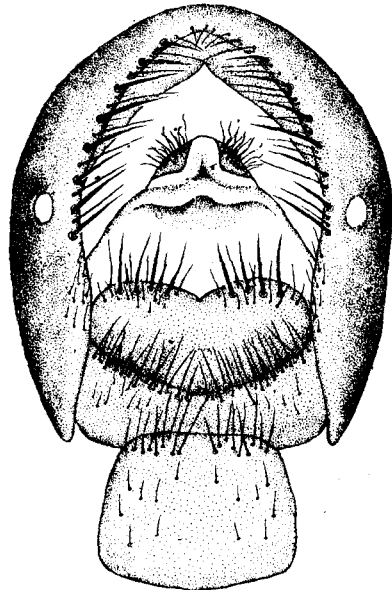


Fig. 1. Female terminalia of *Sarcophaga antilope*.

ral bristles 4 or 5+6.

Wings: Hyaline; RI bare; r 4+5 with a row of 13 short setae located dorsally and extending more than half way from basal node to R-m.

Legs: Black; fore femur with a pair of rows of bristles on the dorsal surface, a row of bristles on the ventral surface; mid femur with 3 pairs bristles on the anteroventral surface.

Abdomen: black and silvery gray checkered pattern; median marginal bristles without on each tergite; marginal bristles developed on the 4th and 5th tergites; terminalia as shown in Fig. 1.

Localities: Mt. Dobong, Kwangnung.

Distribution: Japan, Formosa, China, U.S.S.R.

Remarks: Dwells on decaying animal carcass as to be classified as a sanitary insects. The author failed to collect its male.

Fannia prisca STEIN, 1918

(Ann. Mus. Hung., xvi, p. 154)

Male

Body length: 5-6mm

Head: Eye contiguous; frontal vitta black; Parafrontals and parafacials covered with silvery white pollen; frontal bristles 11 pairs; antennae blackish brown, length of three segment about three times that of 2nd segment; bucca black, covered silvery pollen and with numerous black hairs; black postocular setae one row; palpi black.

Thorax: Scutum with gray; acrostichal bristles 1+1; dorsocentral bristles 2+3, intra-alar bristles 0+2; outer posthumeral bristles 3; apical scutellar bristles a pair; lateroscutellar bristles one; halter yellowish white.

Wings: Hyaline, with costal spines short.

Legs: Black; apical part of tibiae and posterior part of femur light brown; fore femur with a row of bristles on dorsal and ventral surfaces; mid femur with a pair of rows of bristles on ventral surface, a row of bristles without on dorsal surface; hind femur with 2 or 3 bristles on posterolateral surface; apical bristles of tibia 4 or 5.

Abdomen: Covered with grayish pollen; indistinct black stripes on central part and on marginal part of each tergites; 3 or 4 lateral marginal bristles on 3, 4 and 5th tergite; marginal bristles on 6th tergite; genital

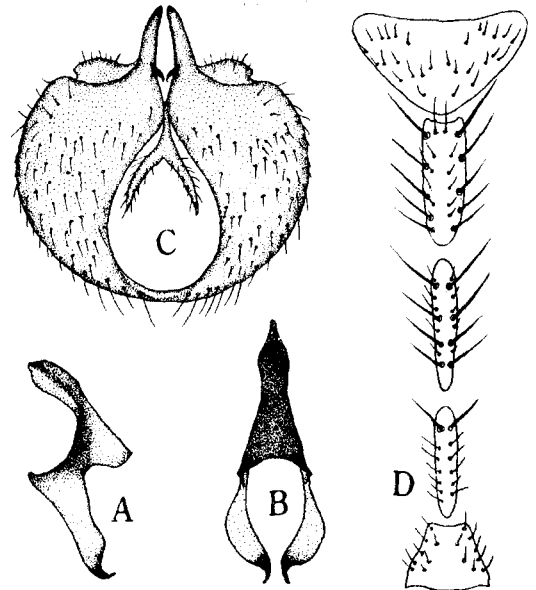


Fig. 2. *Fannia prisca*.

A: Penis. B: Vinculum.

C: 1st genital tergite and forceps. D: Sternites.

segments and genitalia as shown in Fig. 2.

Localities: Changan-Dong, Mt. Dobong, Kwangnung.

Distribution: Japan, China, S. E. Asia.

Remarks: Korean *Fannia* is three species, added this species to two species of *Fannia* reported previously.

Phaonia fuscata EALLEN, 1825

(Mon. Nusc. Succ., 1:85)

Male

Body length: 6mm

Head: Frons about 1/3 width of one eye; frontal vitta black; parafrontals and parafacials with silvery pollinosity; frontal bristles 8 pairs; antennae with dark brown pollen, length of 3rd segment two times that of 2nd segment; bucca with silvery pollen; black postocular setae two rows but one row irregular; palpi black.

Thorax: Scutum with grayish pollen, with 2 rows of dark brown stripes on central part; acrostichal bristles 0+1; dorsocentral bristles 2+3; humeral bristles 2; basal scutellar and lateral scutellar bristles each one pair.

Wings: Hyaline but brown stripes on part of lower marginal cross-vein and discal cross-vein; section II and

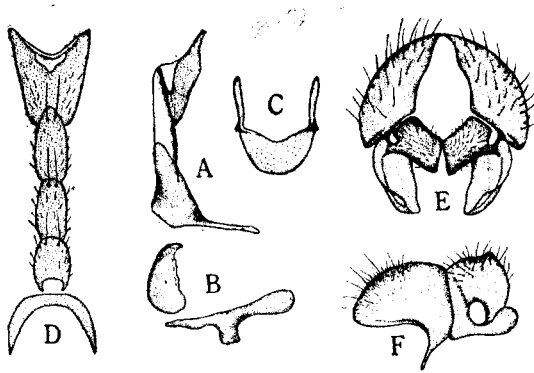


Fig. 3. *Phaonia fuscata*.

A: Penis. B: Parameres.
C: Vinculum. D: 1st genital tergite and forceps.
E: Sternites.

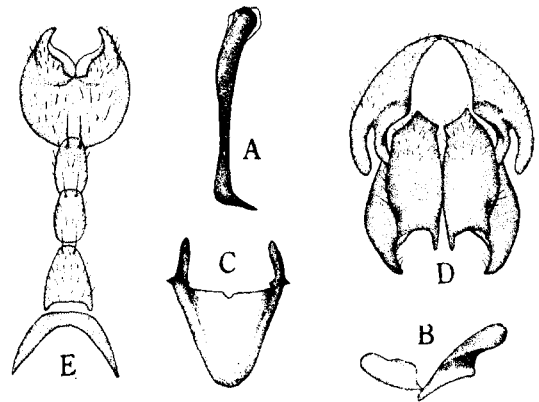


Fig. 4. *Myospila mediatubunda*.

A: Penis. B: Parameres. C: Vinculum.
D: Sternites. E: 1st genital tergite and forceps.
F: Lateral view of 1st genital tergite and forceps.

III of costa vein with spines.

Legs: Dark brown; fore femur with a row of bristles on dorsal and ventral surfaces; mid femur with a row of short weak bristles on ventral surface, 2 bristles on apical part of lateral surface; hind femur with a row of bristles on dorsal and ventral surfaces.

Abdomen: Dark brown with grayish pollen; genitalia as shown in Fig. 3.

Localities: Changan-Dong, Mt. Dobong.

Distribution: ?

Myospila mediatubunda FABRICIUS, 1781
(Spec. Ins., 2:444)

Male

Body length: 6-7mm

Head: Eye contiguous; frontal vitta black; parafrontals and parafacials covered with silvery pollen; frontal bristles about 10 pairs; antennae blackish brown, length of 3rd segment about 2 times that of 2nd segment; bucca black with numerous black hairs; metacephalon with a row of bristles; palpi black.

Thorax: Scutum black, covered with grayish pollen; scutum with 4 black longitudinal stripes; acrostichal bristles 0+1; dorsocentral bristles 2+4; outer posthumeral bristles one; humeral bristles three; squamae whitish yellow.

Wings: Hyaline; basicosta yellow, 3 setae on the ventral surface of the basal node of R4+5.

Legs: Black; fore femur with a row of bristles on ventral and dorsal surfaces; mid femur with a row of bristles on ventral surface; hind femur with a row of bristles on dorsal and ventral surface.

Abdomen: Yellowish gray; a pair of brown spots on central part of 3rd and 4th tergites; each tergites with marginal bristles; genitalia as shown in Fig. 4.

Localities: Mt. Dobong, Changan-Dong, Kwangnung.

Distribution: ?

Salnacia foersteri MEIGEN, 1838
(Syst. Besch., 7:245)

Female

Body length: 11mm

Head: Frons about two times of eye; frontal vitta with yellowish golden pollen; frontal bristles 7 pairs; parafrontals and parafacials similar to frontal vitta; antennae light brown with yellowish pollen, length of 3rd segment three times that of 2nd segment; bucca yellowish golden pollen with black setae; palpi light orange; metacephalon with numerous yellowish golden hairs; postocular setae one row.

Thorax: Scutum blackish brown with about 4 indistinct black stripes, scutellum light brown; acrostichal bristles 3+3; dorsocentral bristles 3+4; intra-alar bris-

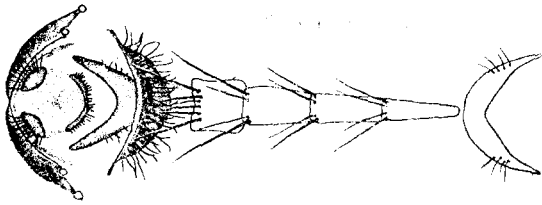


Fig. 5. Female terminalia of *Salmacia foersteri*.

cles 1+3.

Wings: Hyaline; section II of costal vein with spines; R4+5 with a row of 7 setae located dorsally extending more than half way from basal node to R-m.

Legs: Black; fore femur with a row of bristles on dorsal surface, a row of 5 bristles on anterolateral surface; mid femur with a pair of rows of bristles on ventral surface, a row of bristles on dorsal surface and a row of 6 or 7 bristles on centrolateral surface; hind femur with a row of 5 bristles on posteroventral surface, a row of 6 bristles on centrolateral bristles.

Abdomen: Shiny black; a pair of median marginal bristles on 3rd tergite; 4th and 5th tergites with marginal bristles; female terminalia as shown in Fig. 5.

Localities: Changan-Dong.

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